PME278

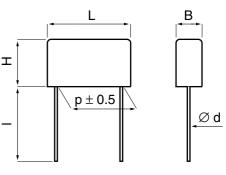
- EMI suppressor, class X1, metallized paper
- 0.001 0.15 µF, 440 VAC, +110 °C
- High dU/dt capability.
- Excellent self-healing properties.
 Ensures long life even when subjected to frequent overvoltages.
- Good resistance to ionisation due to impregnated dielectric.
- The capacitors meet the most stringent IEC humidity class, 56 days.
- The impregnated paper ensures excellent stability giving outstanding reliability properties, especially in applications having continuous operation.

TYPICAL APPLICATIONS

The capacitors are intended for use as interference suppressors in X1, across-the-line, 440 VAC applications.

CONSTRUCTION

Multi-layer metallized paper. Encapsulated and impregnated in self-extinguishing material meeting the requirements of UL 94V-0.



TECHNICAL DATA

Rated voltage 440 VAC 50/60 Hz

Capacitance range 0.001 – 0.15 μF

Capacitance tolerance ± 20%

Temperature range -40 to +110°C

Climatic category IEC 40/110/56/B

Approvals S, N, D, FI, VDE, SEV, IMQ

Dissipation factor tan δ ≤ 1.3 % at 1 kHz

Insulation resistance $\geq 12000 \text{ M}\Omega$

Measured at 500 VDC after 60 s, +23°C

Resonance frequency Tabulated self-resonance frequencies f0

refer to 5 mm lead length.

In DC applications Recommended voltage: ≤ 1000 VDC

Test voltage between terminals

The 100% screening factory test is

carried out at 2700 VDC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after

the test.

d = 0.6 for p = 10.2 0.8 for p = 15.2 and 20.3 1.0 for p = 25.4

I = standard : 30 + 5/-0 mm

option : short leads, tolerance +0/-1 mm (standard 6 mm, code R06) Other lead lengths on request

IDONIA	//ENTAL	TECT	DATA

VibrationIEC 60068-2-6
Test Fc3 directions at 2 hour each
10-500 Hz at 0.75 mm or 98 m/s^2 No visible damage
No open or short circuit

BumpIEC 60068-2-294000 bumps at 390 m/s²No visible damageTest EbNo open or short circuit

Solderability IEC 60068-2-20 Solder globule method Wetting time for $d \le 0.8 < 1 \text{ s}$

Test Ta 60.8 < 1.5 s

Active flammability EN 132400

EN 132400

IEC 60384-14 (1993)

IEC 60068-2-3 +40°C and 56 days Test Ca 90 – 95% R.H.

Humidity

Passive flammability

	ARTICLE TABLE											
Capaci tance µF		x dime mm	ensions L	р	Quant R30 pcs	tity per R06 pcs	package reel taped pcs	Weight g	f _o	Max dU/dt V/μs	Approvals S Z Q E Λ S S S S S S S S S S S S S S S S S S	Article code
0.0010	3.9	7.5	13.5	10.2	1000	2000	700	0.7	53.0	2000	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RA4100MR30
0.0015	3.9	7.5	13.5	10.2	1000	2000	700	0.7	44.0	2000	\checkmark \checkmark \checkmark \checkmark \checkmark	PME278RA4150MR30
0.0022	3.9	7.5	13.5	10.2	1000	2000	700	0.7	37.0	2000	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RA4220MR30
0.0033	4.1	8.2	13.5	10.2	1000	2000	600	0.9	30.0	2000	\checkmark \checkmark \checkmark \checkmark \checkmark	PME278RA4330MR30
0.0047	5.1	10.5	13.5	10.2	800	1600	600	1.2	24.0	2000	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RA4470MR30
0.0068	5.2	10.5	18.5	15.2	500	1000	600	1.7	18.5	1400	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RB4680MR30
0.010	5.2	10.5	18.5	15.2	500	1000	600	1.7	15.5	1400	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RB5100MR30
0.015	5.5	11.1	18.5	15.2	500	1000	500	2.0	13.0	1400	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RB5150MR30
0.022	8.5	14.3	18.5	15.2	300	500	350	3.8	9.6	1400	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RB5220MR30
0.033	7.6	14.0	24.0	20.3	250	1500	250	4.0	9.6	1000	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RC5330MR30
0.047	9.0	15.0	24.0	20.3	200	1200	250	5.0	7.5	1000	\checkmark \checkmark \checkmark \checkmark \checkmark	PME278RC5470MR30
0.068	11.3	16.5	24.0	20.3	150	1000	180	7.0	6.2	1000	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RC5680MR30
0.033	8.0	17.0	27.0	22.5	200	1200	250	5.5	7.2	1000	1 1 1 1 1 1 1	PME278RD5330MR30
0.033	8.0	17.0	27.0	22.5	200	1200	250	5.5	6.0	1000	1 1 1 1 1 1 1	PME278RD5470MR30
0.047	10.0	19.0	27.0	22.5	150	1000	200	7.5	4.8	1000	11111	PME278RD5680MR30
0.10	12.0	22.0	27.0	22.5	100	800	180	10.0	3.6	600	1 1 1 1 1 1 1	PME278RD6100MR30
0.10	12.1	19.0	30.5	25.4	100	800		10.0	3.9	600	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	PME278RE6100MR30
0.15	15.3	22.0	30.5	25.4	75	600		15.0	3.2	600	1 1 1 1 1 1 1	PME278RE6150MR30

APPROVALS/REFERENCE DOCUMENTS

Certification Body	Specification	Approval reference
S	EN 132400	9516076
N	EN 132400	P95101829
D	EN 132400	303938
FI	EN 132400	182572-01
VDE	EN 132400	89760
SEV	EN 132400	95.7 70725
IMQ	EN 132400	V4070

MARKING

- RIFA
- RIFA article code
- Rated capacitance
- Rated voltage
- X1
- SH, for self healing
- Climatic category according to IEC 60068-1, appendix A
- Passive flammability class
- Approval marks
- Manufacturing code (year, month)

ORDERING INFORMATION

The article code for the standard part is given in the article table. For other options, see page 21.

PACKING

Capacitors in standard design (lead length 30 mm) and with L < 24 mm and lead length 5 or 6 mm are packed bulk in a box with dimensions 245 x 145 x 80 mm. Quantity/package as per article table.

Capacitors with $L \ge 24$ mm and lead length 5 or 6 mm are packed on trays piled in a box with dimensions $300 \times 260 \times 195$ mm. Quantity/package as per article table.

Reels with taped capacitors are packed 10 in a box with dimension $370 \times 370 \times 560$ mm. The standard quantity/reel is for 360 mm reel. If 500 mm reel is required, it must be specified when ordering and the quantity is 2×10^{-2} the given quantity.

